

ABSTRACT OF THE DISCLOSURE

There is provided a print control unit capable of transferring and stopping an object to be controlled at a target position when unexpected load is applied to the object. A print control unit includes: a position detecting part to detect a position and a transfer direction of an object to be controlled and driven by a motor; a speed detecting part to detect at least a physical value that corresponds to a speed of the object; a first control part to decide a current value to be supplied to the motor so that the speed of the object reaches a target speed, based on the output of the position detecting part and at least one of control parameters, thus controlling the motor based on the current value decided by the first control part; a second control part to decide a current value to be supplied to the motor so that the speed of the object reaches the target speed, based on the outputs of the position detecting part and the speed detecting part, and at least one of the control parameters, thus controlling the motor based on the current value decided by the second control part; a third control part to decide a current value to be supplied to the motor so that the object stops within a predetermined range, based on the output of the position detecting part and at least one of the control parameters, thus controlling the motor based on the decided current value; and a selection control part, operating at a predetermined timing, to select and set the control parameters in accordance with the target speed, to judge as to whether the object is located within a target range, based on the output of the position detecting part, if located, the selection control part selecting and operating the third control part, while if the object is not located within the target range, the selection control part selecting and operating the first or the second control part based on the physical value corresponding to the speed.